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NOTICE OF ALLOWANCE AND FEE(S) DUE

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02/25/2008

SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 5400 SEATTLE, WA 98104 EXAMINER

MARC, MCDIEUNEL

ART UNIT PAPER NUMBER

3664

DATE MAILED: 02/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,874	08/06/2003	Babak Habibi	170154.401C1	7619

TITLE OF INVENTION: METHOD AND APPARATUS FOR SINGLE IMAGE 3D VISION GUIDED ROBOTICS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	05/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (orders and notification of (a) specifying a new cor	maintenance fees respondence address	will be ; and/or	mailed to the current r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			F	e(s) Transmittal. Th	is certif	ficate cannot be used f	or domestic mailings of the or any other accompanying ont or formal drawing, must
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701 FIFTH AVE SUITE 5400		Si	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelog addressed to the Mail Stop ISSUE FEE address above, or being facsimi transmitted to the USPTO (571) 273-2885, on the date indicated below.				
SEATTLE, WA	98104		L				(Depositor's name)
			L				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/634,874	08/06/2003	•	Babak Habibi	i 170154.401C1		170154.401C1	7619
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nonprovisional	YES	\$720	\$300	\$0		\$1020	05/27/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MARC, MO	CDIEUNEL	3664	700-245000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the			1	
	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	ype)			
PLEASE NOTE: Uni	less an assignee is ident	ified below, no assignee	data will appear on the of a substitute for filing a	patent. If an assign	nee is io	dentified below, the d	ocument has been filed for
(A) NAME OF ASSI	•	oretion of this form is NC	(B) RESIDENCE: (CI	ŭ	COUNT	TRY)	
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Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 C	orporati	on or other private gro	oup entity 🗖 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (P	ease first reapply a	ny prev	viously paid issue fee	shown above)
☐ Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to De	posit Account Numb	er	(enclose a	n extra copy of this form).
5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no le	onger claiming SMA	LL EN	FITY status See 37 Cl	FR 1 27(g)(2)
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	ed from anyone other that				ne assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademar	k Office.				
Authorized Signature				Date			
Typed or printed name				Registration 1	No		
This collection of inform	ation is required by 37 C	FR 1.311. The informati	on is required to obtain o	r retain a benefit by	the pub	lic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the NOT SEND FEES OR	1.14. This collection is a depending upon the interest of the Chief Information Off COMPLETED FORMS	estimated to take 12 lividual case. Any c cer, U.S. Patent and TO THIS ADDRES	minutes omment Traden S. SENI	s to complete, including ts on the amount of time that Office, U.S. Depo D TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/634,874	08/06/2003	Babak Habibi	170154.401C1	7619	
500 75	590 02/25/2008		EXAM	INER	
SEED INTELLE	CTUAL PROPERTY	MARC, MCDIEUNEL			
701 FIFTH AVE		ART UNIT	PAPER NUMBER		
SUITE 5400	2104	3664			
SEATTLE, WA 98104			DATE MAILED: 02/25/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 215 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 215 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/634,874	HABIBI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MCDIEUNEL MARC	3664	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	
1. This communication is responsive to 01/10/2008.			
2. ☑ The allowed claim(s) is/are <u>33-47 and 49-61</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	,.,		
2. ☐ Certified copies of the priority documents have			
3. ☐ Copies of the certified copies of the priority do	· · · —		
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	mational stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMINER	'S AMENDMENT or NOTICE OF	
<u> </u>		mon is dendern.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus		040) attacked	
(a) ☐ including changes required by the Notice of Draftspers	- ·	948) attached	
1) hereto or 2) to Paper No./Mail Date		Office action of	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment of in the C	office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 🗖 N " . (1.6		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	. ,	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	te .	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendr	nent/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance	
or Bronograd, Material	9.		

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Art Unit: 3664

Allowable Subject Matter

1. Claims 50-47 and 49-61 are allowed in light of the amendment filed 10/10/2008.

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach or fairly suggest a method useful in three-dimensional pose estimation for use with a single camera mounted to a movable portion of robot that further comprises the steps of determining an object space-to-camera space transformation for the target object based at least in part on a position of at least some of the located features using only the signal captured image and an algorithm that employs a known or determinable physical relationship between at least some of the located features in combination with the other elements of the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MCDIEUNEL MARC whose telephone number is (571)272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

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Art Unit: 3664

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Khoi Tran can be reached on (571) 272-6919. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/McDieunel Marc/ Examiner, Art Unit 3664

MM/ /Khoi H Tran/ Supervisory Patent Examiner, Art Unit 3664